

WHAT IS CLAIMED IS:

1 1. A multi-function tool, comprising:
2 a head having a first jaw and a second jaw joined at an axis,
3 the first jaw having a working portion and a tang and the second jaw
4 having a working portion and a tang;
5 a first handle coupled to the first jaw;
6 a second handle coupled to the second jaw, the handles
7 having a folded configuration, and an unfolded configuration; and
8 a spring in the head biasing the working portions apart from
9 one another, wherein the handles are biased in an open position when the
10 handles are in the unfolded configuration and the handles are biased in a
11 closed position when the handles are in the folded configuration.

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1 2. The multi-function tool of claim 1, wherein the first jaw and the
2 second jaw form a pair of pliers.

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1 3. The multi-function tool of claim 1, further comprising:
2 a tool cartridge captured in a channel in the first handle, the
3 tool cartridge having a cartridge axle and a plurality of ancillary tools
4 pivotally coupled to the cartridge axle.

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1 4. The multi-function tool of claim 1, further comprising a
2 plurality of ancillary tools pivotally coupled to the first handle.

do 3

1 5. The multi-function tool of claim 1, further comprising:
2 a cam surface on each of the tangs; and
3 a spring arm coupled to each handle, each spring arm
4 configured to engage one of the cam surfaces, wherein the handles snap
5 into the folded configuration due to the interaction between the spring
6 arm and the cam surface, and wherein the handles snap into the unfolded

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7 configuration due to the interaction between the spring arm and the cam
8 surface.

1 6. A multi-function tool, comprising:
2 a head having a first jaw and a second jaw rotatably coupled
3 to one another, the first jaw having a working portion and a tang and the *dt 12 30/194*
4 second jaw having a working portion and a tang;
5 a first handle coupled to the first jaw;
6 a second handle coupled to the second jaw; and
7 a replaceable cutting insert coupled to the head, the cutting
8 insert comprising two pieces, one coupled to each of the jaws, wherein
9 the pieces each have a notch for stripping wires.

1 7. The multi-function tool of claim 6, wherein the first jaw and the *7/132*
2 second jaw form a pair of pliers.

1 8. The multi-function tool of claim 6, further comprising:
2 a tool cartridge captured in a channel in the first handle, the *7/128 dt 3*
3 tool cartridge having a cartridge axle and a plurality of ancillary tools
4 pivotally coupled to the cartridge axle.

1 9. The multi-function tool of claim 6, further comprising a *dt 3*
2 plurality of ancillary tools pivotally coupled to the first handle.

1 10. The multi-function tool of claim 9, wherein one of the *dt 3*
2 ancillary tools is a pair of scissors.

1 11. The multi-function tool of claim 6, further comprising:
2 a cam surface on each of the tangs; and
3 a spring arm coupled to each handle, each spring arm *dt 6*
4 configured to engage one of the cam surfaces, wherein the handles snap
5 into the folded configuration due to the interaction between the spring

6 arm and the cam surface, and wherein the handles snap into the unfolded
7 configuration due to the interaction between the spring arm and the cam
8 surface.

1 12. The multi-function tool of claim 6, wherein the two pieces of
2 the cutting insert are coupled to the jaws with one or more screws.

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1 13. A multi-function tool, comprising:
2 a head having a first jaw and a second jaw;
3 a first handle coupled to the first jaw, the first handle having
4 a first channel;
5 a second handle coupled to the second jaw, the second
6 handle having a second channel, wherein the first and second handles
7 each have a first side and a second side;
8 the first side of each handle having a tongue; and
9 the second side of each handle having a groove configured
10 to receive the tongue.

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dr 1

1 14. The multi-function tool of claim 13, wherein the first jaw and
2 the second jaw form a pair of scissors.

dr 6

1 15. The multi-function tool of claim 13, further comprising:
2 a tool cartridge captured in the first channel, the tool
3 cartridge having a cartridge axle and a plurality of ancillary tools pivotally
4 coupled to the cartridge axle.

dr 3

1 16. The multi-function tool of claim 15, wherein the first channel
2 includes a recess in a wall of the first channel, the recess corresponding
3 in size to the tool cartridge.

dr 3

1 17. The multi-function tool of claim 13, further comprising a
2 plurality of ancillary tools pivotally coupled to the first handle.

dr 3

1 18. A method of manufacturing or repairing the handle of a
2 multi-function tool, the handle having a first side and a second side,
3 comprising the steps of:
4 providing an interchangeable component;
5 inserting the interchangeable component between the two
6 sides of the handle; and
7 fastening the handle sides together using a plurality of
8 fasteners, whereby the interchangeable component is captured between
9 the first and second sides.

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1 19. The method of manufacturing or repairing the handle of a
2 multi-function tool of claim 18, wherein the interchangeable component is
3 a tool cartridge having a plurality of ancillary tools.

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1 20. The method of manufacturing or repairing the handle of a
2 multi-function tool of claim 18, wherein the first side has a flange with a
3 tongue, and the second side has a flange with a groove, and further
4 comprising the step of inserting the tongue into the groove.

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